

WEST Search History

DATE: Thursday, December 04, 2003

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result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR

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L54	L53 and bioactive	5	L54
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- ☒ 11. 20020197321. 29 Apr 02. 26 Dec 02. Solid dispersing vaccine composition for oral delivery. Seager, Harry. 424/486; A61K009/14.
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- ☐ 13. 20020025329. 20 Aug 01. 28 Feb 02. Use of microparticles combined with submicron oil-in-water emulsions. O'Hagan, Derek, et al. 424/278.1; 424/204.1 424/228.1 424/280.1 424/283.1 424/497 424/70.11 424/70.19 424/70.9 A61K009/16 A61K009/50 A61K007/06 A61K007/075 A61K039/12 A61K045/00 A61K047/00.
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- ☐ 15. 6534064. 10 Oct 00; 18 Mar 03. Stabilized protein particles for inducing cellular immune responses. O'Hagan; Derek, et al. 424/205.1; 424/199.1 424/204.1 424/207.1 424/208.1 424/225.1 424/228.1 424/229.1 424/70.14 424/70.16 424/9.34 435/8 518/726. A61K039/12 A61K039/29 C07B063/06 C12Q001/70 C07C047/06.
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- ☒ 19. 6086901. 29 Jan 98; 11 Jul 00. Use of microparticles combined with submicron oil-in-water emulsions. O'Hagan; Derek, et al. 424/283.1; 424/204.1 424/228.1 424/278.1 424/497 424/70.11 424/70.19. A61K039/29 A61K007/08 A61K045/00 A61K047/44.

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- ☒ 1. [20030211122](#). 12 Jun 03. 13 Nov 03. Mucosal microparticle conjugate vaccine. Sjöholm, Ingvar, et al. 424/258.1; A61K039/112.
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L74: Entry 1 of 19

File: PGPB

Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030211122

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030211122 A1

TITLE: Mucosal microparticle conjugate vaccine

PUBLICATION-DATE: November 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sjoholm, Ingvar	Uppsala		SE	
Wikingsson, Lena Degling	Spanga		SE	

US-CL-CURRENT: 424/258.1

CLAIMS:

1. Mucosal microparticle conjugate vaccine against a certain pathogenic microorganism, which comprises, as an immunizing component, a T-cell activating amount of protection-generating antigens derived from said microorganism conjugated, possibly via a linker, to biodegradable microparticles.

2. Vaccine according to claim 1, wherein the biodegradable microparticles are starch particles, including cross-linked starch particles.

3. Vaccine according to claim 2, wherein the cross-linked starch particles are polyacryl starch microparticles.

4. Vaccine according to any one of claims 1-3, wherein the mucosal vaccine is an oral vaccine.

5. Vaccine according to any one of claims 1-4, wherein the pathogenic microorganism is an intracellular pathogenic microorganism.

6. Vaccine according to claim 5, wherein said intracellular pathogenic microorganism is selected from the group consisting of Mycobacterium tuberculosis and Salmonella enteritidis.

7. Method of inducing protective immunity against a certain pathogenic microorganism in a mammal, including man, comprising mucosal administration to said mammal of a T-cell activating amount of protection-generating antigens derived from said microorganism conjugated, possibly via a linker, to biodegradable microparticles, as an immunizing component.

8. Method according to claim 7, wherein the mucosal administration is oral administration and the protection-generating antigens derived from said microorganism are secreted proteins from Mycobacterium tuberculosis or Salmonella enteritidis

9. Use of protection-generating antigens derived from a certain pathogenic microorganism conjugated, possibly via a linker, to biodegradable microparticles for the production of a mucosal microparticle conjugate vaccine against said certain pathogen.

10. Use according to claim 7, wherein the mucosal vaccine is an oral vaccine, said antigens derive from Mycobacterium tuberculosis or Salmonella enteritidis, and the biodegradable microparticles are starch particles, including cross-linked starch particles and polyacryl starch microparticles.

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L74: Entry 1 of 19

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Wikingsson, Lena Degling	Spanga		SE	

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
INNOVENTUS PROJECT AB				03

APPL-NO: 10/ 459525 [PALM]
DATE FILED: June 12, 2003

RELATED-US-APPL-DATA:

Application 10/459525 is a division-of US application 09/623046, filed November 9, 2000, PENDING
Application 09/623046 is a a-371-of-international WO application PC/T/SE99/00277, filed February 26, 1999, UNKNOWN

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
SE	9800615-8	1998SE-9800615-8	February 27, 1998

INT-CL: [07] A61 K 39/112

US-CL-PUBLISHED: 424/258.1

US-CL-CURRENT: 424/258.1

ABSTRACT:

Mucosal, particularly oral, microparticle conjugate vaccines against certain pathogenic microorganisms, especially intracellular pathogenic microorganisms, are disclosed. An immunizing component of such a vaccine comprises protection-generating antigens derived from a certain pathogenic microorganism, such as Mycobacterium tuberculosis or Salmonella enteritidis, conjugated, possibly via a linker, to biodegradable microparticles, particularly starch microparticles, such as cross-linked starch microparticles, e.g. polyacryl starch microparticles. Further, a method of inducing protective immunity against a certain pathogenic microorganism in a mammal, and the use of protection-generating antigens derived from a certain pathogenic microorganism conjugated, possibly via a linker to biodegradable microparticles for the production of a mucosal microparticle conjugate vaccine are described.

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- ☐ 1. [20030049698](#). 08 Oct 02. 13 Mar 03. Diagnosis and treatment of gastrointestinal disease. Wang, Timothy C.. 435/7.21; 435/7.32 G01N033/567 G01N033/554 G01N033/569.
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- ☐ 1. [20030162691](#). 10 Mar 03. 28 Aug 03. Novel antimicrobial therapies. Kornberg, Arthur. 514/1; 435/252.3 A61K031/00 C12N001/21.
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- ☐ 2. [20030113338](#). 27 Apr 99. 19 Jun 03. IMMUNOGENIC DETOXIFIED MUTANT E. COLI LT-A TOXIN. PIZZA, MARIAGRAZIA, et al. 424/184.1; 424/265.1 514/2 530/350 A61K039/00 A01N037/18 C07K001/00.
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- ☐ 3. [20030049698](#). 08 Oct 02. 13 Mar 03. Diagnosis and treatment of gastrointestinal disease. Wang, Timothy C.. 435/7.21; 435/7.32 G01N033/567 G01N033/554 G01N033/569.
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☐ 21. CN 1397283 A WO 9638186 A1 AU 9657557 A AU 701974 B BR 9609166 A CN 1186436 A. Novel chemotherapeutic compsns. to treat cancer - comprise polymeric and/or copolymeric compsns. to treat also gastrointestinal disease, diarrhoea, increases weight in humans, animals and birds. MELROSE, G J H. A23K001/16 A61K031/765 A61P035/00 C08G077/42 C08L029/00 C08L029/14 C08L033/02.

☒ 22. WO 9605822 A1 US 5534544 A. Use of surfactants and emulsifying agents to inhibit *Helicobacter pylori* - and treatment of infection by sequential admin of antibiotic then surfactant or emulsifying agent free of calcium, magnesium, aluminium or silicon ions. KANE, A V, et al. A61K031/23 A61K031/34.

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- ☐ 3. [20030049698](#). 08 Oct 02. 13 Mar 03. Diagnosis and treatment of gastrointestinal disease. Wang, Timothy C.. 435/7.21; 435/7.32 G01N033/567 G01N033/554 G01N033/569.
- ☐ 4. [20020107368](#). 06 Dec 00. 08 Aug 02. Helicobacter proteins, gene sequences and uses thereof. Tian, Jing-Hui, et al. 530/388.4; 424/190.1 530/350 536/23.7 A61K031/70 C07H021/04 C07K001/00 C07K014/00 C07K017/00 C07K016/00 C12P021/08.
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- ☐ 7. [20020051819](#). 15 Jun 01. 02 May 02. Peptides, compositions and methods for the treatment of burkholderia cepacia. Kuhner, Carla H., et al. 424/484; 424/486 424/488 514/17 A61K009/14 A61K038/08.
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- ☐ 9. [6610504](#). 10 Apr 00; 26 Aug 03. Methods of determining SAM-dependent methyltransferase activity using a mutant SAH hydrolase. Yuan; Chong-Sheng. 435/15; 435/18. C12Q001/48 C12Q001/34.
- ☐ 10. [6585975](#). 01 Nov 99; 01 Jul 03. Use of Salmonella vectors for vaccination against helicobacter infection. Kleanthous; Harold, et al. 424/200.1; 424/234.1 435/6 435/69.1 514/44 536/23.5. A61K039/02.
- ☐ 11. [6551795](#). 18 Feb 99; 22 Apr 03. Nucleic acid and amino acid sequences relating to pseudomonas aeruginosa for diagnostics and therapeutics. Rubenfield; Marc J., et al. 435/69.1; 435/253.3 435/320.1 435/325 435/6 536/23.1 536/23.7. C12P021/06 C12N015/00 C07H021/04.
- ☐ 12. [6528325](#). 13 Oct 00; 04 Mar 03. Method for the visual detection of specific antibodies in human serum by the use of lateral flow assays. Hubscher; Thomas T., et al. 436/518; 422/56 422/58 435/287.2 435/287.7 435/7.1 435/7.94 436/513 436/514. G01N033/543.

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